

$$13) \log (16 + 2b) = \log (b^2 - 4b)$$

$$\{8, -2\}$$

$$14) \ln (n^2 + 12) = \ln (-9n - 2)$$

$$\{-2, -7\}$$

$$15) \log x + \log 8 = 2$$

$$\left\{\frac{25}{2}\right\}$$

$$16) \log x - \log 2 = 1$$

$$\{20\}$$

$$17) \log 2 + \log x = 1$$

$$\{5\}$$

$$18) \log x + \log 7 = \log 37$$

$$\left\{\frac{37}{7}\right\}$$

$$19) \log_8 2 + \log_8 4x^2 = 1$$

$$\{1, -1\}$$

$$20) \log_9 (x + 6) - \log_9 x = \log_9 2$$

$$\{6\}$$

$$21) \log_6 (x + 1) - \log_6 x = \log_6 29$$

$$\left\{\frac{1}{28}\right\}$$

$$22) \log_5 6 + \log_5 2x^2 = \log_5 48$$

$$\{2, -2\}$$

$$23) \ln 2 - \ln (3x + 2) = 1$$

$$\left\{\frac{2 - 2e}{3e}\right\}$$

$$24) \ln (-3x - 1) - \ln 7 = 2$$

$$\left\{\frac{-7e^2 - 1}{3}\right\}$$

$$25) \ln (x - 3) - \ln (x - 5) = \ln 5$$

$$\left\{\frac{11}{2}\right\}$$

$$26) \ln (4x + 1) - \ln 3 = 5$$

$$\left\{\frac{3e^5 - 1}{4}\right\}$$